Cody Adams

CSC335-01

Winter 09

Homework 4 : 2, 3, 4, 5, 9, 22, 24, 28

2. A noiseless channel can send as much data as you want, ( Sample size \* 8000 samples/sec ) = Max Kbps .

3. A 6MHz channel can be sampled 12 million times per second. Sampling Rate \* bits per sample = 12000000 samples/sec \* 2 bits/sample = 24Mbps

4. Take the lower

5.

9. Nyquist applies to both media; it is a mathematical principle that holds true for both.

22. 4 values per baud, yielding a bit rate twice the baud rate, so 2400bps

24. Phase shifting

28. Ten signals requires nine guards, so ( 4000 \* 10 ) + ( 400 \* 9 ) = 43600

1. 